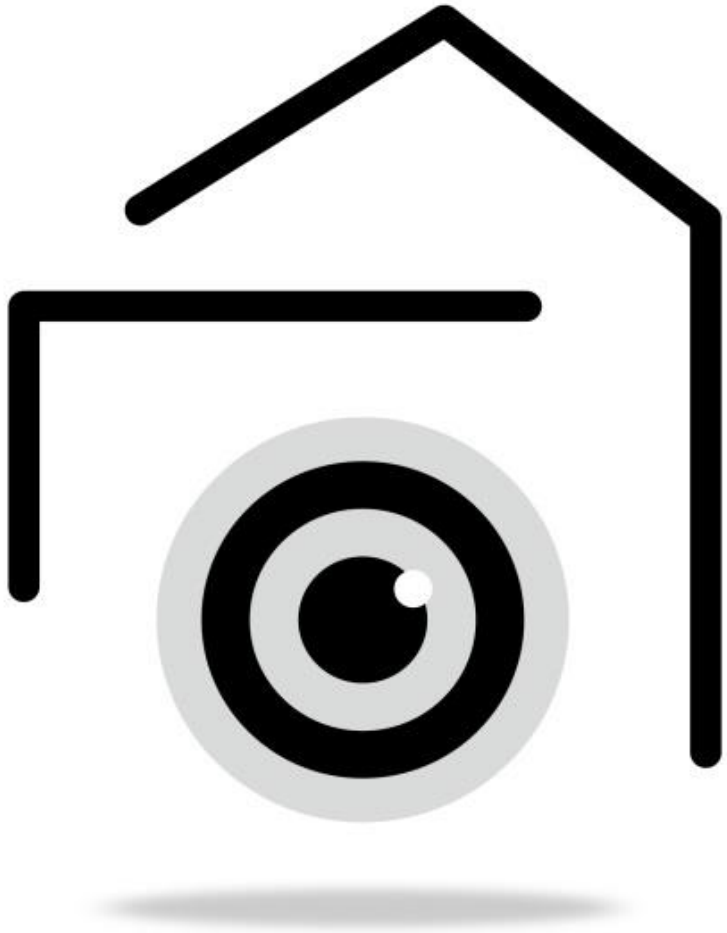
Network Video Recorder

NVR-CH4

NVR-CH8

NVR-CH16

Quick Guide



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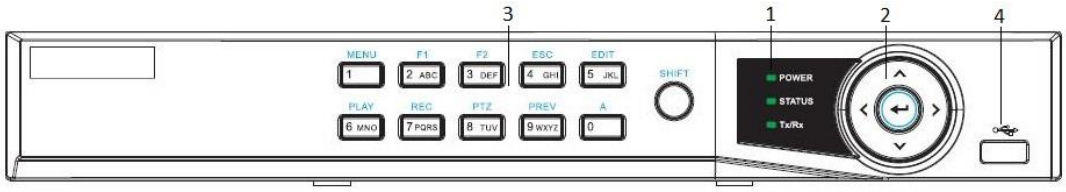
Front Panel

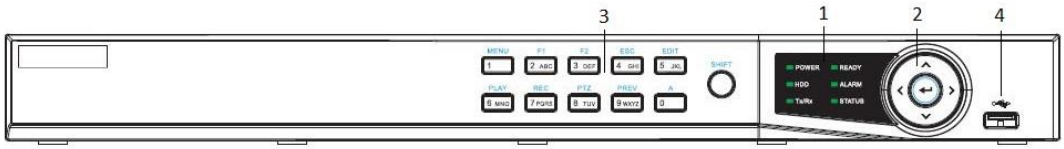
NVR-4Channel (NVR-CH4)



No.	Name		Description
1	Status Indicator	Power	Power indicator turns yellow when system is running.
		Status	Status indicator blinks red when data is being read from or written to HDD.
		Tx/Rx	Tx/Rx indictor blinks yellow when network connection is functioning properly.
2	Control Buttons	DIRECTION	In menu mode, the direction buttons are used to navigate between different fields and items and select setting parameters.
			In playback mode, the Up and Down buttons are used to speed up and slow down record playing, and the Left and Right buttons are used to move the recording 30s forward or backward.
			In the image setting interface, the up and down button can adjust the level bar of the image parameters. In live view mode, these buttons can be used to switch channels.
		ENTER	The Enter button is used to confirm selection in menu mode; or used to check checkbox fields and ON/OFF switch.
			In playback mode, it can be used to play or pause video.
			In single-frame play mode, pressing the Enter button will play the video by a single frame.
			In auto sequence view mode, the buttons can be used to pause or resume auto sequence.
3	Composite Keys	SHIFT	Switch between the numeric or letter input and functions of the composite keys. (Input letter or numbers when the light is out; Realize functions when the light is red.)
		1/MENU	Enter numeral “1”;
			Access the main menu interface.
		2/ABC/F1	Enter numeral “2”;
			Enter letters “ABC”;
			The F1 button when used in a list field will select all items in the list.
			In PTZ Control mode, it will turn on/off PTZ light and when the image is zoomed in, the key is used to zoom out.
		3/DEF/F2	Enter numeral “3”;
			Enter letters “DEF”;

			The F2 button is used to change the tab pages.
			In PTZ control mode, it zooms in the image.
		4/GHI/ESC	Enter numeral “4”;
			Enter letters “GHI”;
			Exit and back to the previous menu.
		5/JKL/EDIT	Enter numeral “5”;
			Enter letters “JKL”;
			Delete characters before cursor;
			Check the checkbox and select the ON/OFF switch;
			Start/stop record clipping in playback.
		6/MNO/PLAY	Enter numeral “6”;
			Enter letters “MNO”;
			Playback, for direct access to playback interface.
		7/PQRS/REC	Enter numeral “7”;
			Enter letters “PQRS”;
			Open the manual record interface.
		8/TUV/PTZ	Enter numeral “8”;
			Enter letters “TUV”;
			Access PTZ control interface.
		9/WXYZ/PREV	Enter numeral “9”;
			Enter letters “WXYZ”;
			Multi-channel display in live view.
		0/A	Enter numeral “0”;
			Shift the input methods in the editing text field. (Upper and lowercase, alphabet, symbols or numeric input).
			Double press the button to switch the main and auxiliary output.
4	**USB Interfaces**		Universal Serial Bus (USB) ports for additional devices such as USB mouse and USB Hard Disk Drive (HDD)

NVR-8Channel (NVR-CH8)

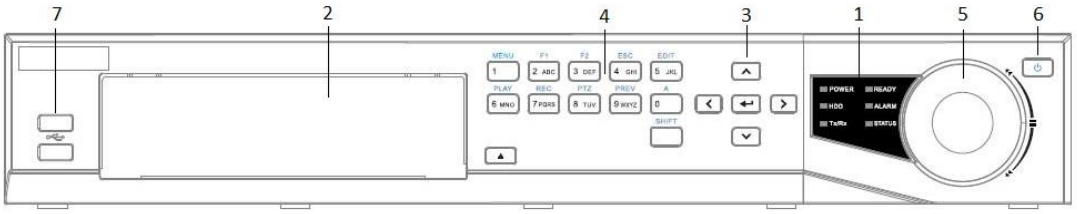


No.	Name		Function Description
1	**Status Indicators**	**POWER**	Turns green when NVR is powered up.
		READY	The LED is green when the device is running normally.
		STATUS	The light is green when the IR remote control is enabled; The light is red when the function of the composite keys (SHIFT) are used; The light is out when none of the above conditions are met.
		ALARM	The light is red when there is an alarm occurring.
		HDD	Blinks red when HDD is reading/writing.

No.	Name		Function Description
		Tx/Rx	Blinks green when network connection is functioning normally.
2	Control Buttons	DIRECTION	In menu mode, the direction buttons are used to navigate between different fields and items and select setting parameters.
			In playback mode, the Up and Down buttons are used to speed up and slow down record playing, and the Left and Right buttons are used to move the recording 30s forwards or backwards.
			In the image setting interface, the up and down button can adjust the level bar of the image parameters. In live view mode, these buttons can be used to switch channels.
		ENTER	The Enter button is used to confirm selection in menu mode; or used to check checkbox fields and ON/OFF switch.
			In playback mode, it can be used to play or pause video.
			In single-frame play mode, pressing the Enter button will play the video by a single frame.
			In auto sequence view mode, the buttons can be used to pause or resume auto sequence.
3	Composite Keys	SHIFT	Switch between the numeric or letter input and functions of the composite keys. (Input letter or numbers when the light is out; Realize functions when the light is red.)
		1/MENU	Enter numeral “1”;
			Access the main menu interface.
		2/ABC/F1	Enter numeral “2”;
			Enter letters “ABC”;
			The F1 button when used in a list field will select all items in the list.
			In PTZ Control mode, it will turn on/off PTZ light and when the image is zoomed in, the key is used to zoom out.
		3/DEF/F2	Enter numeral “3”;
			Enter letters “DEF”;
			The F2 button is used to change the tab pages.
			In PTZ control mode, it zooms in the image.
		4/GHI/ESC	Enter numeral “4”;
			Enter letters “GHI”;
			Exit and back to the previous menu.
		5/JKL/EDIT	Enter numeral “5”;
			Enter letters “JKL”;
			Delete characters before cursor;
			Check the checkbox and select the ON/OFF switch;
			Start/stop record clipping in playback.
		6/MNO/PLAY	Enter numeral “6”;
			Enter letters “MNO”;
			Playback, for direct access to playback interface.
		7/PQRS/REC	Enter numeral “7”;
			Enter letters “PQRS”;

No.	Name		Function Description
			Open the manual record interface.
		8/TUV/PTZ	Enter numeral “8”;
			Enter letters “TUV”;
			Access PTZ control interface.
		9/WXYZ/PREV	Enter numeral “9”;
			Enter letters “WXYZ”;
			Multi-channel display in live view.
		0/A	Enter numeral “0”;
			Shift the input methods in the editing text field. (Upper and lowercase, alphabet, symbols or numeric input).
			Double press the button to switch the main and auxiliary output.
4	USB Interfaces		Universal Serial Bus (USB) ports for additional devices such as USB mouse and USB Hard Disk Drive (HDD).

NVR-16Channel (NVR-CH16)



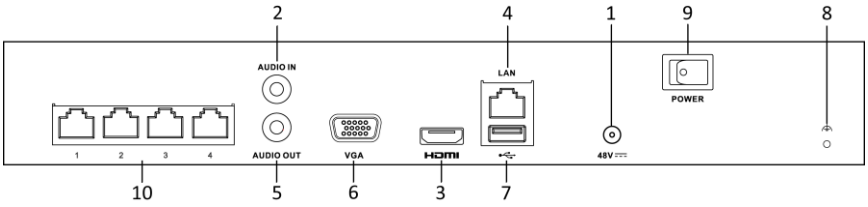
No.	Name		Function Description
1	Status Indicators	POWER	Turns green when NVR is powered up.
		READY	The LED is green when the device is running normally.
		STATUS	The light is green when the IR remote control is enabled; The light is red when the function of the composite keys (SHIFT) are used; The light is out when none of the above condition is met.
		ALARM	The light is red when there is an alarm occurring.
		HDD	Blinks red when HDD is reading/writing.
		Tx/Rx	Blinks green when network connection is functioning normally.
2	DVD-R/W		Slot for DVD-R/W.
3	Control Buttons	DIRECTION	In menu mode, the direction buttons are used to navigate between different fields and items and select setting parameters.
			In playback mode, the Up and Down buttons are used to speed up and slow down record playing, and the Left and Right buttons are used to move the recording 30s forwards or backwards.
			In the image setting interface, the up and down button can adjust the level bar of the image parameters.

No.	Name		Function Description
			In live view mode, these buttons can be used to switch channels.
		ENTER	The Enter button is used to confirm selection in menu mode; or used to check checkbox fields and ON/OFF switch.
			In playback mode, it can be used to play or pause video.
			In single-frame play mode, pressing the Enter button will play the video by a single frame.
			In auto sequence view mode, the buttons can be used to pause or resume auto sequence.
4	**Composite Keys**	**SHIFT**	Switch between the numeric or letter input and functions of the composite keys. (Input letter or numbers when the light is out; Realize functions when the light is red.)
		1/MENU	Enter numeral “1”;
			Access the main menu interface.
		2/ABC/F1	Enter numeral “2”;
			Enter letters “ABC”;
			The F1 button when used in a list field will select all items in the list.
			In PTZ Control mode, it will turn on/off PTZ light and when the image is zoomed in, the key is used to zoom out.
		3/DEF/F2	Enter numeral “3”;
			Enter letters “DEF”;
			The F2 button is used to change the tab pages.
			In PTZ control mode, it zooms in the image.
		4/GHI/ESC	Enter numeral “4”;
			Enter letters “GHI”;
			Exit and back to the previous menu.
		5/JKL/EDIT	Enter numeral “5”;
			Enter letters “JKL”;
			Delete characters before cursor;
			Check the checkbox and select the ON/OFF switch;
			Start/stop record clipping in playback.
		6/MNO/PLAY	Enter numeral “6”;
			Enter letters “MNO”;
			Playback, for direct access to playback interface.
		7/PQRS/REC	Enter numeral “7”;
			Enter letters “PQRS”;
			Open the manual record interface.
		8/TUV/PTZ	Enter numeral “8”;
			Enter letters “TUV”;
			Access PTZ control interface.
		9/WXYZ/PREV	Enter numeral “9”;
			Enter letters “WXYZ”;
			Multi-channel display in live view.
		0/A	Enter numeral “0”;

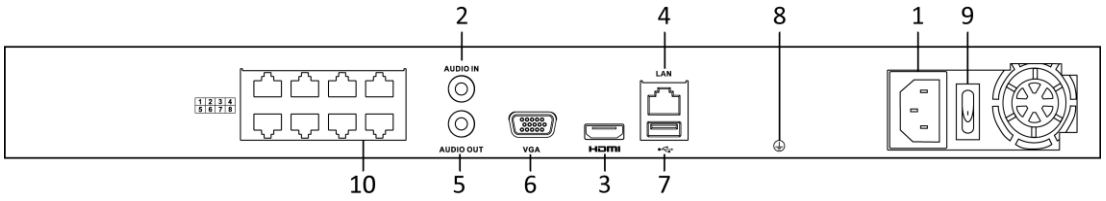
No.	Name	Function Description
		Shift the input methods in the editing text field. (Upper and lowercase, alphabet, symbols or numeric input).
		Double press the button to switch the main and auxiliary output.
5	JOG SHUTTLE Control	Move the active selection in a menu. It will move the selection up and down.
		In Live View mode, it can be used to cycle through different channels.
		In the Playback mode, it can be used to jump 30s forward/backward in video files.
		In PTZ control mode, it can control the movement of the PTZ camera.
6	POWER ON/OFF	Power on/off switch.
7	USB Interfaces	Universal Serial Bus (USB) ports for additional devices such as USB mouse and USB Hard Disk Drive (HDD).

Rear Panel

NVR-4Channel (NVR-CH4)

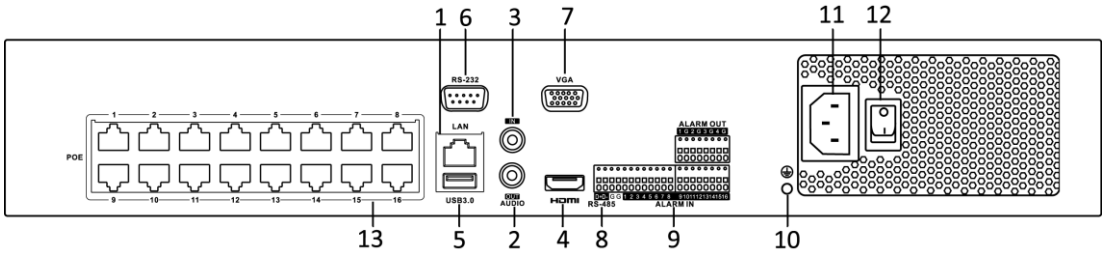


NVR-8Channel (NVR-CH8)



No.	Item	Description
1	**Power Supply**	48V DC power supply for NVR-CH4 and AC 100~240V for NVR-CH8.
2	**Audio In**	RCA connector for audio input.
3	**HDMI Interface**	HDMI video output connector.
4	**LAN Network Interface**	1 10 /100 /1000 Mbps self-adaptive Ethernet interface
5	**Audio Out**	RCA connector for audio output.
6	**VGA Interface**	DB9 connector for VGA output. Display local video output and menu.
7	**USB Interface**	Universal Serial Bus (USB) ports for additional devices such as USB mouse and USB Hard Disk Drive (HDD).
8	**Ground**	Ground (needs to be connected when NVR starts up).
9	**Power Switch**	Switch for turning on/off the device.
10	**Network Interfaces with PoE function**	Network interfaces for the cameras and power over Ethernet.

NVR-16Channel (NVR-CH16)



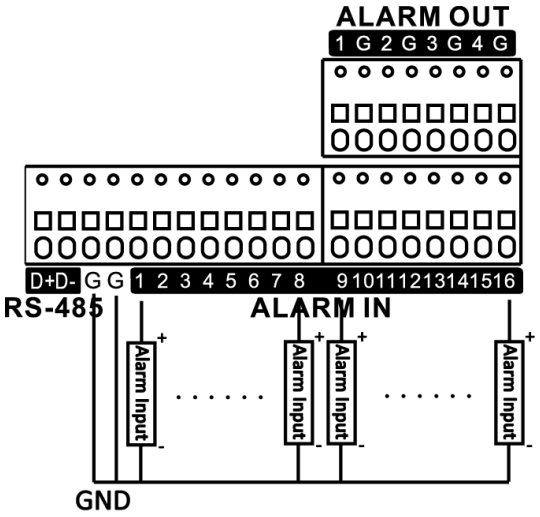
No.	Item	Description
1	**LAN Interface**	1 network interface
2	**AUDIO OUT**	RCA connector for audio output.
3	**LINE IN**	RCA connector for audio input.
4	**HDMI**	HDMI video output connector.
5	**USB 3.0 interface**	Universal Serial Bus (USB) ports for additional devices such as USB mouse and USB Hard Disk Drive (HDD).
6	**RS-232 Interface**	Connector for RS-232 devices.
7	**VGA**	DB9 connector for VGA output. Display local video output and menu.
8	**RS-485 Interface**	Half-duplex connector for RS-485 devices.
9	**ALARM IN**	Connector for alarm input.
	ALARM OUT	Connector for alarm output.
10	**GROUND**	Ground (needs to be connected when NVR starts up).
11	**AC 100V ~ 240V**	100V ~ 240V AC power supply.
12	**Power Switch**	Switch for turning on/off the device.
13	**Network Interfaces with PoE function**	Network interfaces for the cameras and power over Ethernet.

Wiring of Alarm Input

The alarm input is an open/closed relay. To connect the alarm input to the device, use the following diagram.

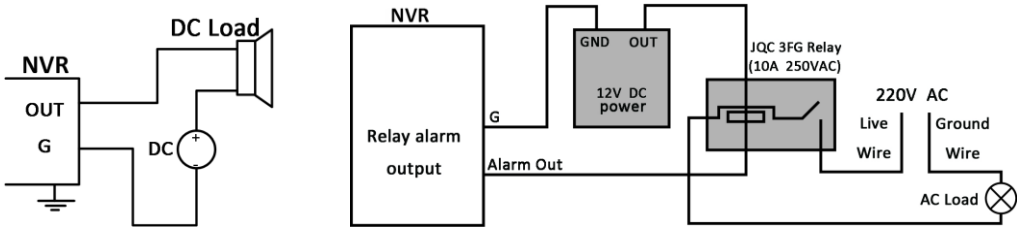
Note:

If the alarm input is not an open/close relay, please connect an external relay between the alarm input and the device.



Wiring of Alarm Output

To connect to an alarm output (AC or DC load), use the following diagram:



DC Load Connection Diagram **AC Load Connection Diagram**

For DC load, the jumpers can be used within the limit of 12V/1A safely.

To connect an AC load, jumpers should be left open (you must remove the jumper on the motherboard in the NVR). Use an external relay for safety (as shown in the figure above).

There are 4 jumpers (JP1, JP2, JP3, and JP4) on the motherboard, each corresponding with one alarm output. By default, jumpers are connected. To connect an AC load, jumpers should be removed.

Example:

If you connect an AC load to the alarm output 3 of the NVR, then you must remove the JP 3.

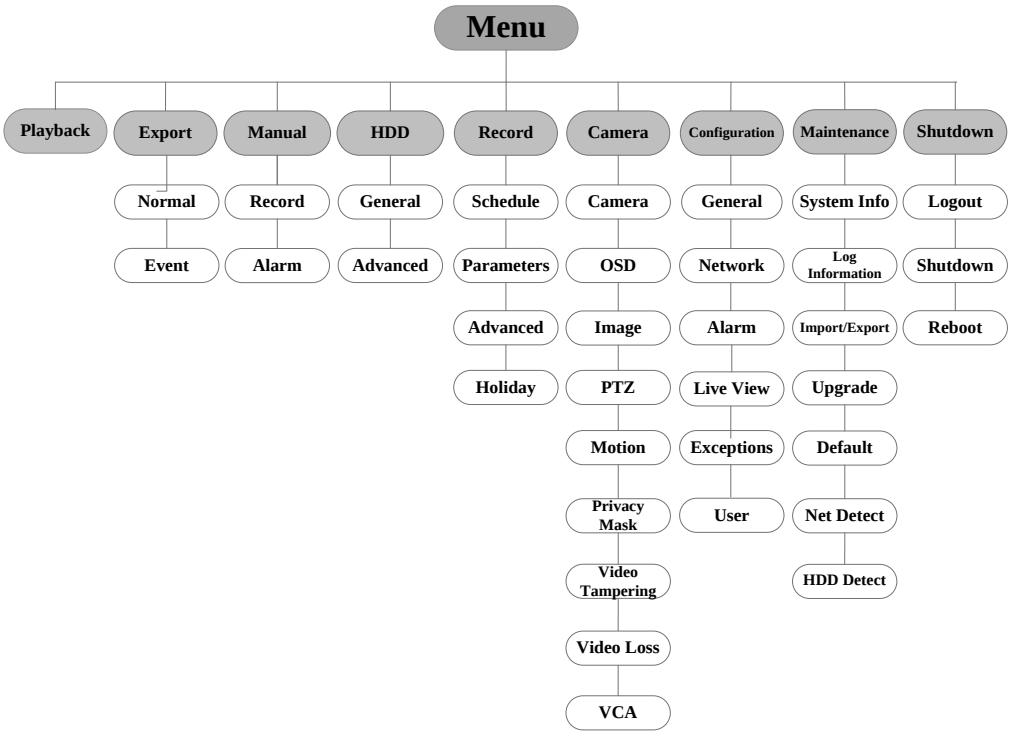
Using of Alarm Connectors

To connect alarm devices to the NVR:

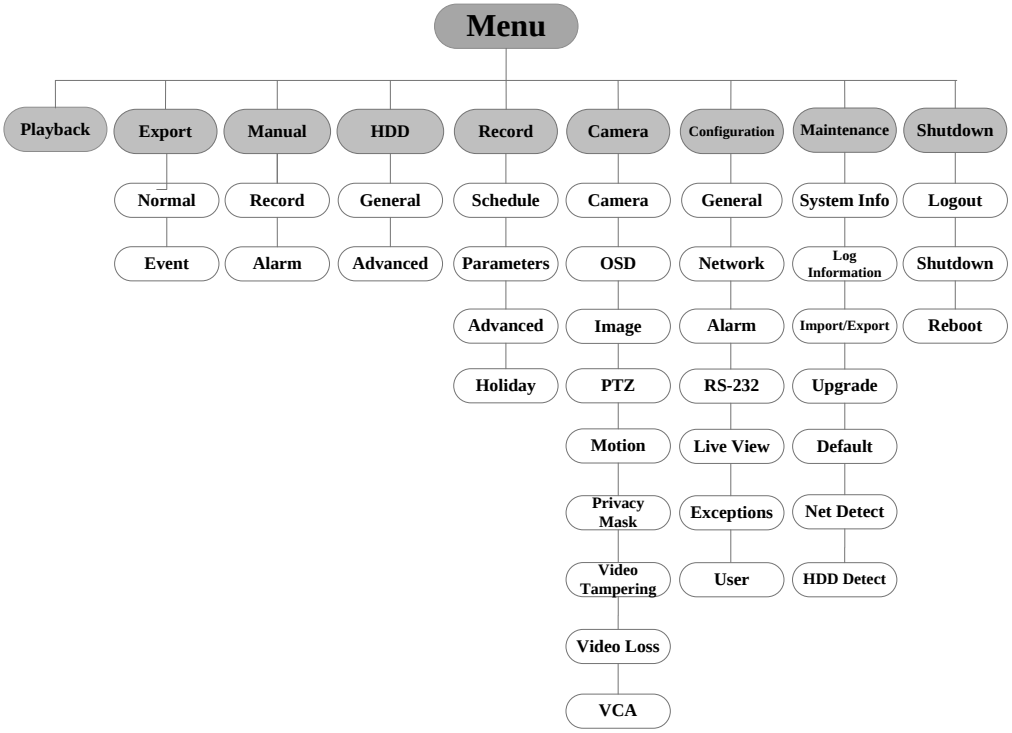
1. Disconnect *pluggable block* from the ALARM IN /ALARM OUT terminal block.
2. Unfasten stop screws from the *pluggable block*, insert signal cables into slots and fasten stop screws. Ensure signal cables are in tight.
3. Connect *pluggable block* back into terminal block.

Menu Structure

The menu structure NVR-4CH and NVR-8CH:



The menu structure of NVR-16CH:



Startup and Shutdown

Proper startup and shutdown procedures are crucial to extend the life of the NVR.

To start your NVR:

Steps:

1. Check the power supply is plugged into an electrical outlet. It is HIGHLY recommended that an Uninterruptible Power Supply (UPS) be used in conjunction with the device. The Power button on the front panel should be red, indicating that the device has power.
2. Press the POWER button on the front panel. The Power LED should turn blue or green. The unit will begin to start.

   After the device startup, the wizard will guide you through the initial settings, including modifying password, date and time settings, network settings, HDD initializing, and recording.

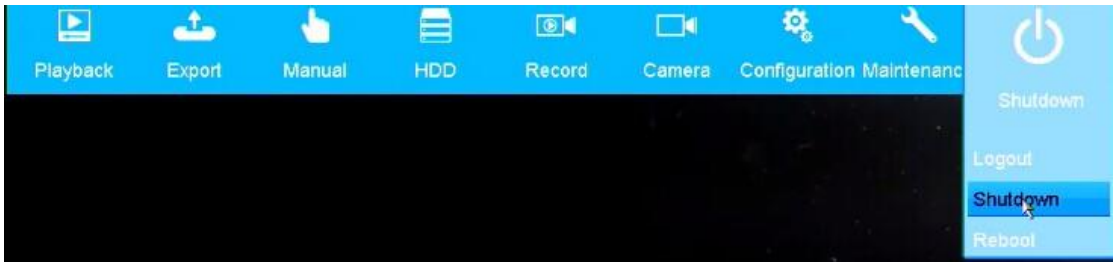
Note: For admin login, default password is 'admin'. Please change it in wizard immediately.

To shut down the NVR:

Steps:

1. Enter the Shutdown menu.

   Right Click – Menu -Shutdown



2. Select the **Shutdown** button.

Live View

Some icons are provided on screen in Live View mode to indicate different camera status. These icons include:

Live View Icons

In the live view mode, there are icons at the upper-right corner of the screen for each channel, showing the status of the record and alarm in the channel, so that you can see any problems as soon as possible.

Alarm (video loss, tampering, motion detection or sensor alarm)

Record (manual record, continuous record, motion detection or alarm triggered record)

Alarm & Record

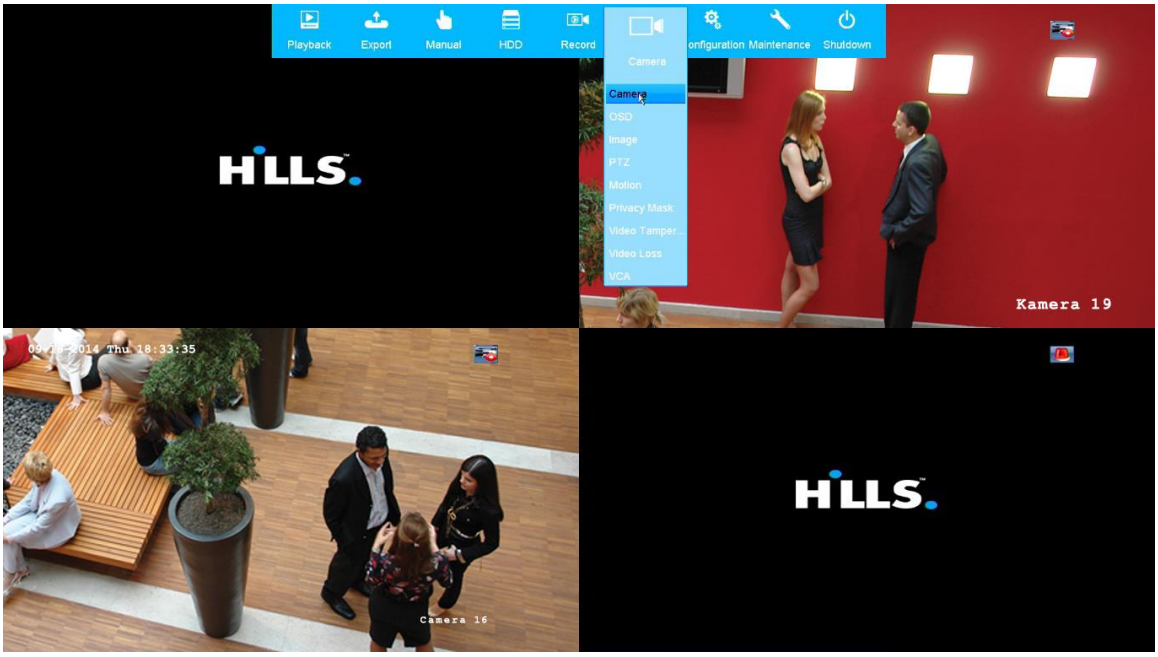
Event/Exception (event and exception information, appears at the lower-left corner of the screen.)

Adding IP Cameras

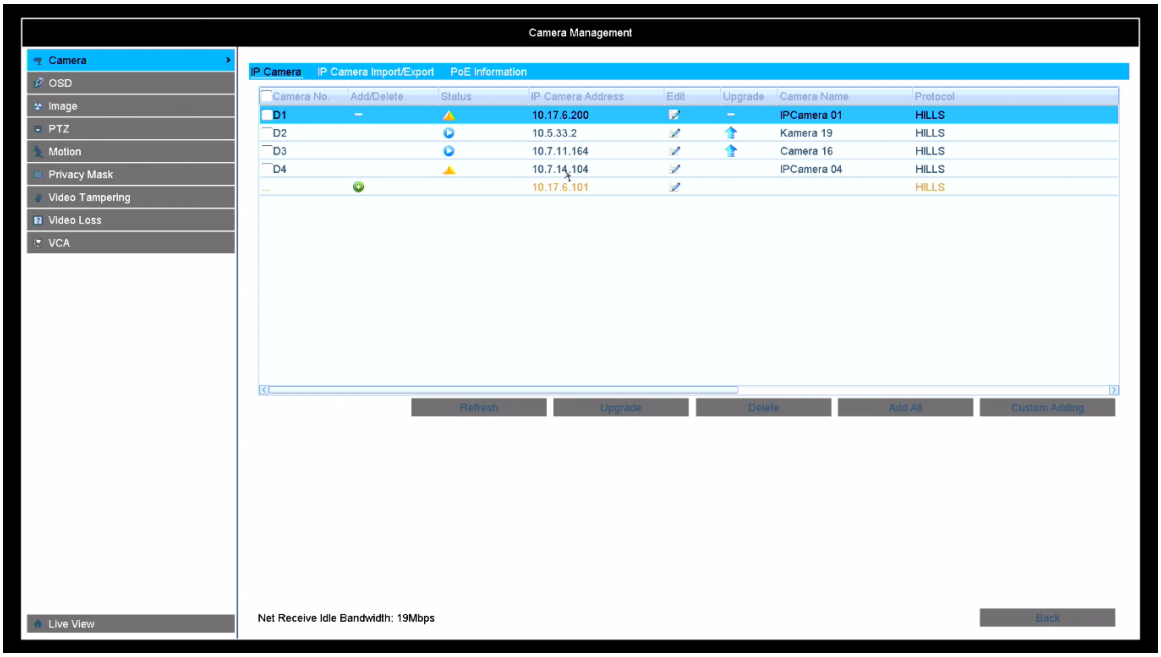
You should add and configure the online IP cameras to enable the live view and recording function.

Steps:

1. Right-click the mouse when you in the live view mode to show the right-click menu.



2. Select **Camera** in the pop-up menu to enter the Camera Management interface.



3. The online cameras with same network segment will be displayed in the camera list. Click the button to add the camera.

Note:

The added camera is marked in black while the camera has not been added is marked in yellow.

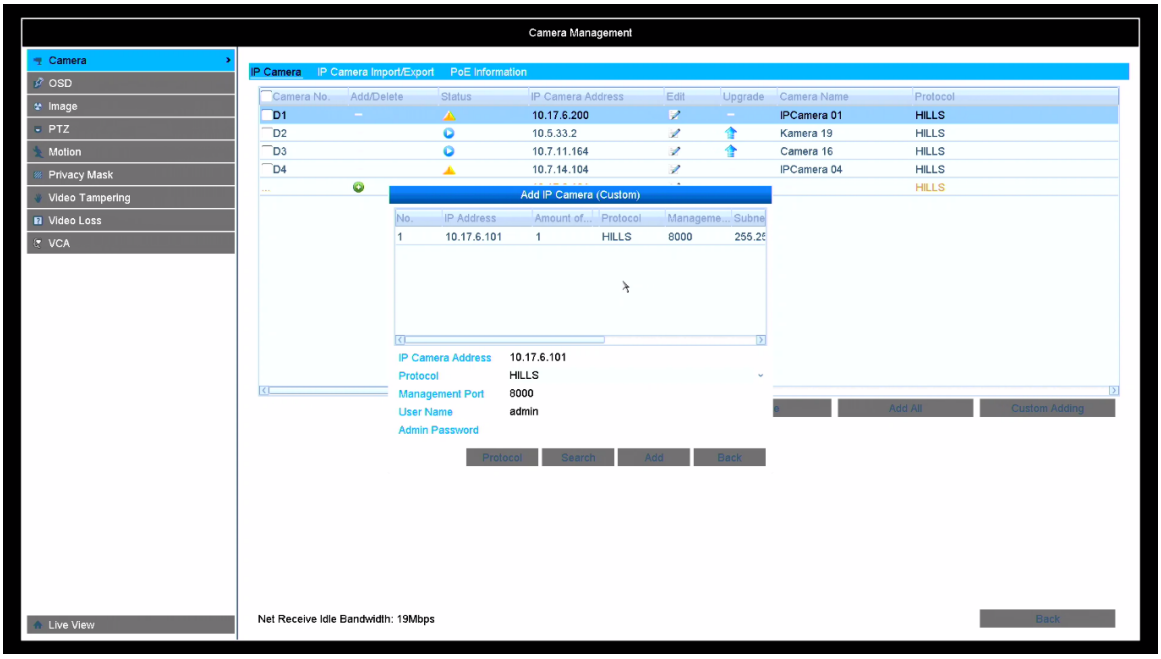
Explanation of the icons

Icon	Explanation	Icon	Explanation
	Edit basic parameters of the camera		Add the detected IP camera.

Icon	Explanation	Icon	Explanation
	The camera is connected.		The camera is disconnected; you can click the icon to get the exception information of camera.
	Delete the IP camera		Advanced settings of the camera.

4. To add other IP cameras:

1) Click the **Custom Adding** button to pop up the Add IP Camera (Custom) interface.



2) You can edit the IP address, protocol, management port, and other information of the IP camera to be added.

3) Click **Add** to add the camera.

Recording

Two record types are introduced in the following section, Instant Record and All-day Record. For other record types please refer to the user manual for detailed information.

Note:

After rebooting all the manual records enabled are cancelled.

Instant Recording

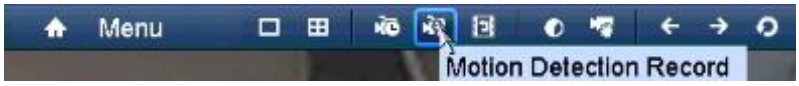
On the live view window of each channel, there is a quick setting toolbar which shows on the bottom of the window when you click on it.

Click the icon to enable the record, and the icon turns to . And click icon to disable the record, then the icon will turn to .

All-day Recording

Steps:

1. On the live view window, right lick the window and move the cursor to the **Start Recording** option, and select **Continuous Record** or **Motion Detection Record** on your demand.



2. And click the **Yes** button in the popup Attention message box to confirm the settings.
   Then all the channels will start to record in the selected mode.

Playback

Play back the record files of a specific channel in the live view menu. Channel switch is supported.

- **Option 1:**

Choose a channel under live view using the mouse and click the button in the shortcut operation menu.

Note:

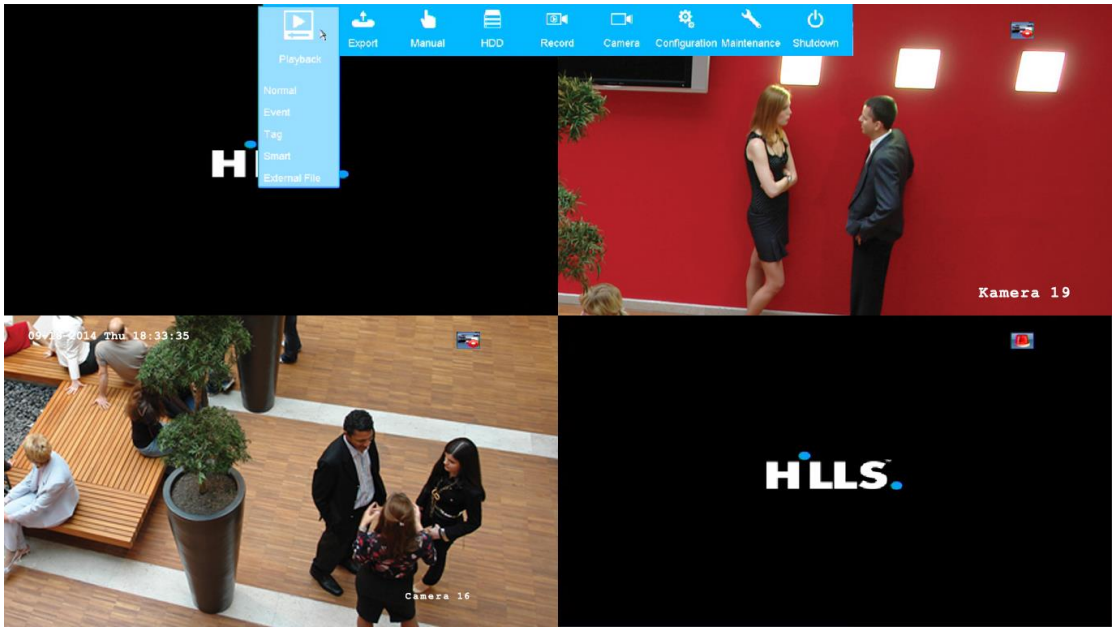
Only files recorded in the past five minutes on this channel will be played back.

- **Option 2:**

Steps:

1. Enter the Playback menu.

   Mouse: right click a channel in live view mode and select Playback from the menu.



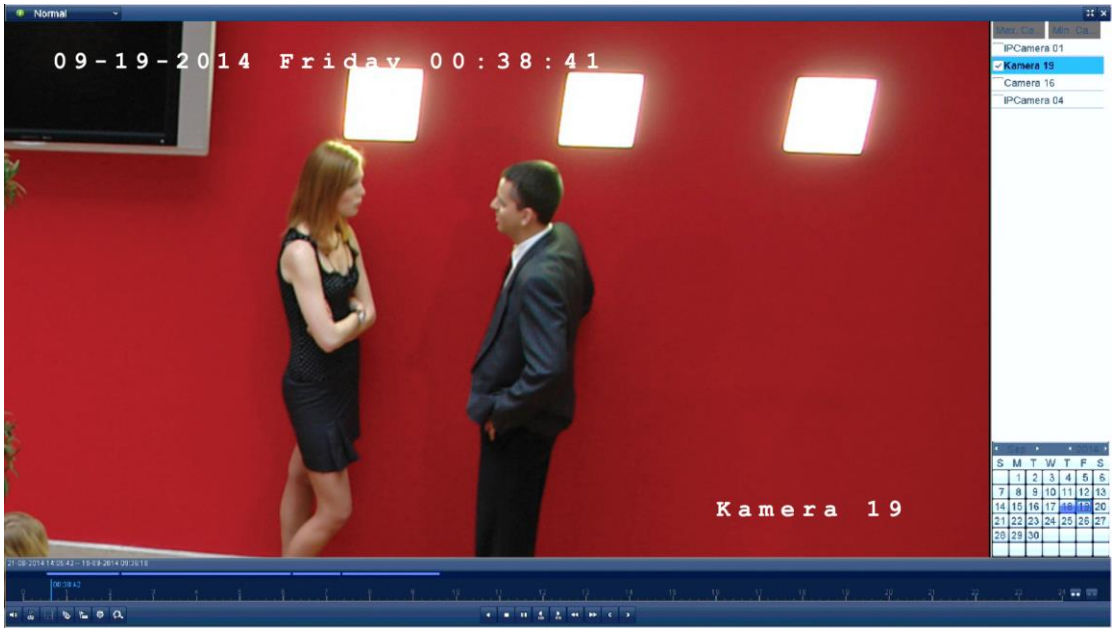
   Under multi-screen live view, record files of the selected channel will be played back.

   Note:

   Pressing numerical buttons will switch playback to related channels during playback process.

2. Playback management.

   The toolbar in the bottom part of Playback interface can be used to control playing process.



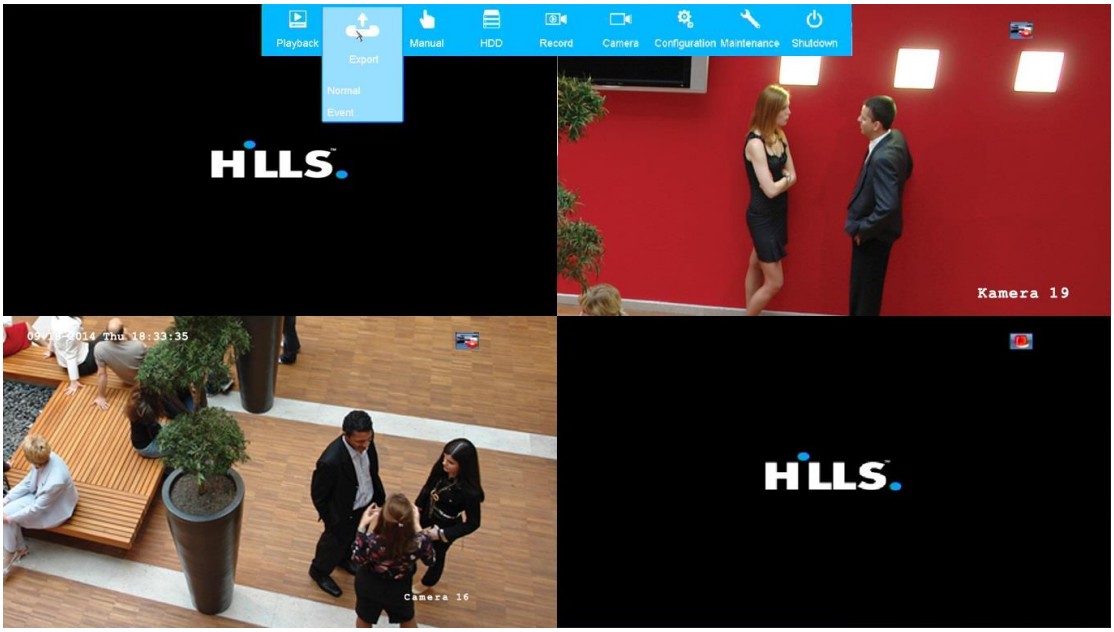
Just check the channel or channels if you want to switch playback to another channel or execute simultaneous playback of multiple channels.

Backup

Recorded files can be backed up to various devices, such as USB flash drives, USB HDDs or a DVD writer.

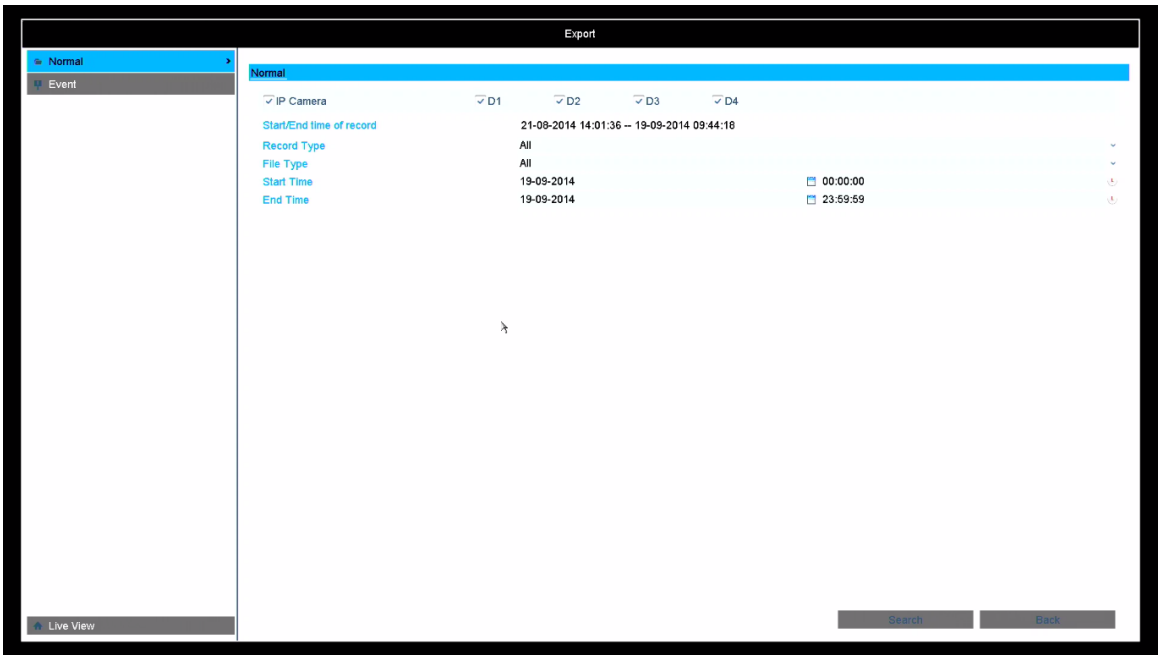
Steps:

1. Enter Export menu

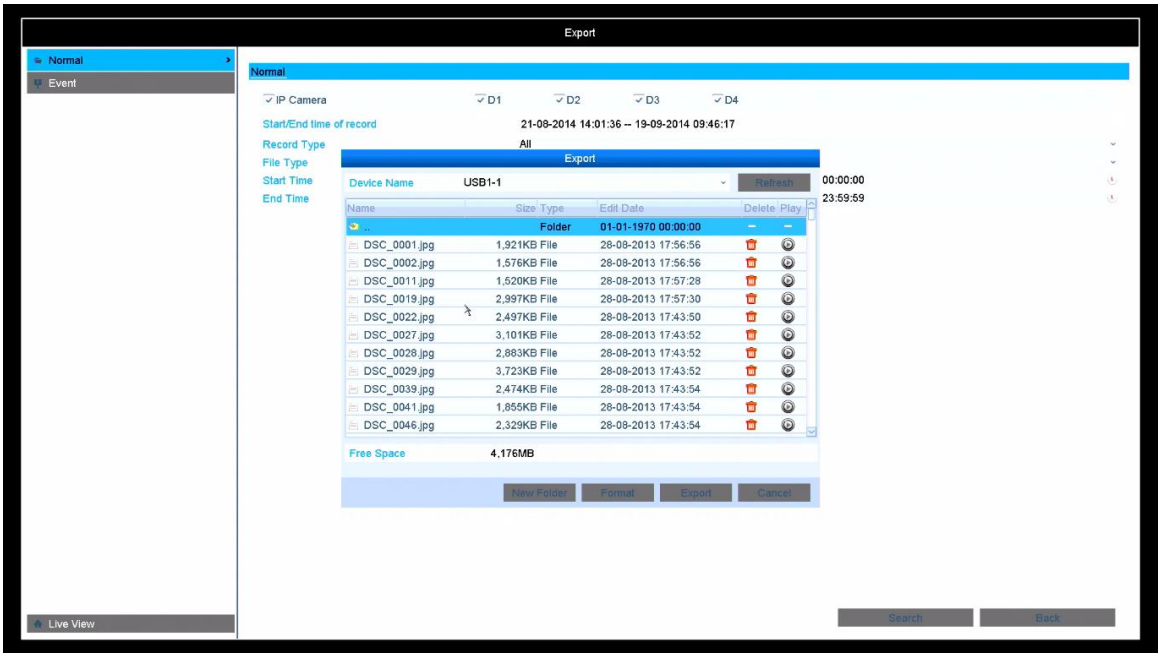


2. Select IP Camera.

   Choose the channel(s) you want to back up and click on the **Search** button.

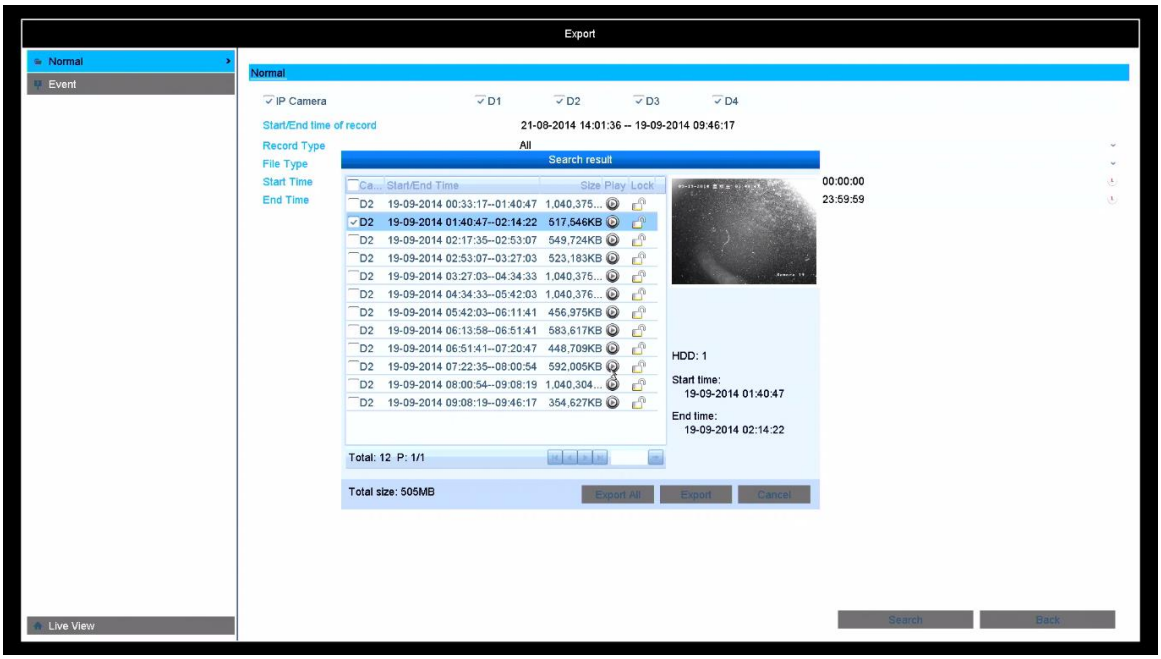


3. Select backup device and click **Export** button to start exporting.



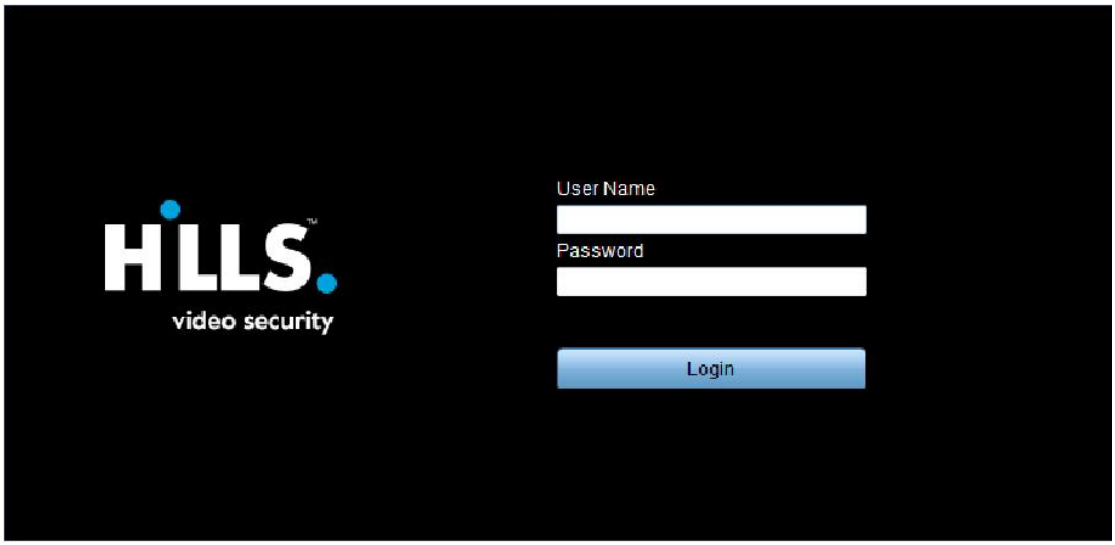
4. Check backup result.

   Choose the recording file in Export interface and click button to check it.


Export
Normal
Event
Live View
Normal
IP Camera
D1
D2
D3
D4
Start/End time of record
21-08-2014 14:01:36 -- 19-09-2014 09:46:17
Record Type
All
File Type
Start Time
00:00:00
End Time
23:59:59
Search result
Ca... Start/End Time Size Play Lock
D2 19-09-2014 00:33:17--01:40:47 1,040,375...
D2 19-09-2014 01:40:47--02:14:22 517,546KB
D2 19-09-2014 02:17:35--02:53:07 549,724KB
D2 19-09-2014 02:53:07--03:27:03 523,183KB
D2 19-09-2014 03:27:03--04:34:33 1,040,375...
D2 19-09-2014 04:34:33--05:42:03 1,040,376...
D2 19-09-2014 05:42:03--06:11:41 456,975KB
D2 19-09-2014 06:13:58--06:51:41 583,617KB
D2 19-09-2014 06:51:41--07:20:47 448,709KB
D2 19-09-2014 07:22:35--08:00:54 592,005KB
D2 19-09-2014 08:00:54--09:08:19 1,040,304...
D2 19-09-2014 09:08:19--09:46:17 354,627KB
Total: 12 P: 1/1
HDD: 1
Start time:
19-09-2014 01:40:47
End time:
19-09-2014 02:14:22
Total size: 505MB
Export All
Export
Cancel
Search
Back

Logging In

You can get access to the device via web browser. Open a web browser, input the IP address of the device and then press Enter. The login interface appears:



Input the user name and password, and click the **Login** button.

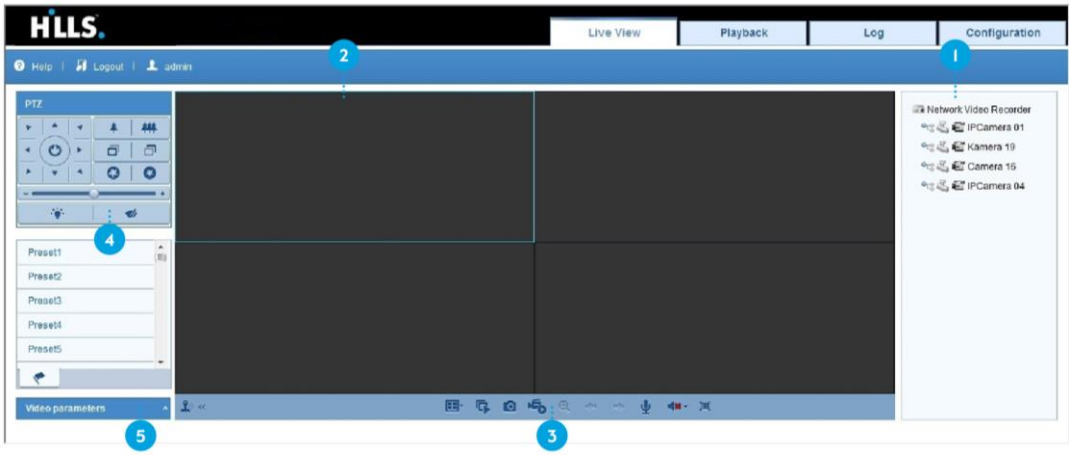
Note:

- By default DHCP client is enabled. NVR will search for DHCP server for 30 seconds if the network doesn't have a DHCP server then NVR will switch to fixed IP address.
- The default IP address is 10.2.2.2 and Subnet mask 255.0.0.0.
- The default user name is admin, and password is admin.
- You may use one of the following listed web browsers: Internet Explorer 6.0, Internet Explorer 7.0, Internet Explorer 8.0, Internet Explorer 9.0, Internet Explorer 10.0, Apple Safari, Mozilla Firefox, and Google Chrome.
- The supported resolutions include 1024*768 and above.

When you log in for the first time, the system will remind you to install the Plug-in control. After the installation, you can configure and manage the device remotely.

Live View

The live view interface appears by default when you log in the device.



Interface Introduction

No.	Name	Description
1	Channel List	Displays the list of channels and the playing and recording status of each channel. Note: The stream type can be switched by clicking the icon before the channel name: stands for main stream and for sub-stream.
2	Live View Window	Displays the image of channel, and multi-window division is supported.
3	Play Control Bar	Play control operations are supported.
4	PTZ Control	Pan, tilt, zoom operations are supported, as well as preset editing and calling. Note: PTZ function can only be realized if the connected camera supports PTZ control.
5	Video Parameters Configuration	Brightness, contrast, saturation and hue of the image can be adjusted.

Start Live View

Steps:

1. In the live view window, select a playing window by clicking the mouse.

2. Double click a camera from the device list to start the live view.

3. You can click the button on the toolbar to start the live view of all cameras on the device list.

Refer to the following table for the description of buttons on the live view window:

Icon	Description	Icon	Description
	Select the window-division mode	/	On/Off audio
/	Start/Stop all live view	/	Start/Stop two-way Audio
	Capture pictures in the live view mode		Adjust volume

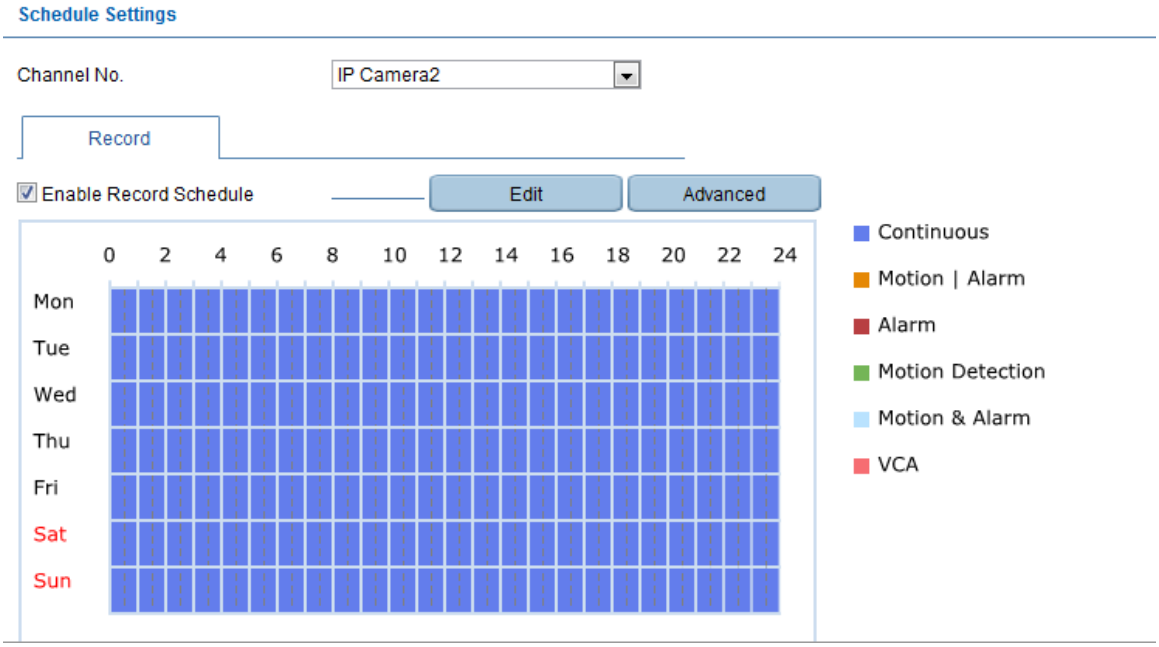
	Start/Stop all recording		Enable/Disable digital zoom
	Previous/Next page		Full screen

Recording

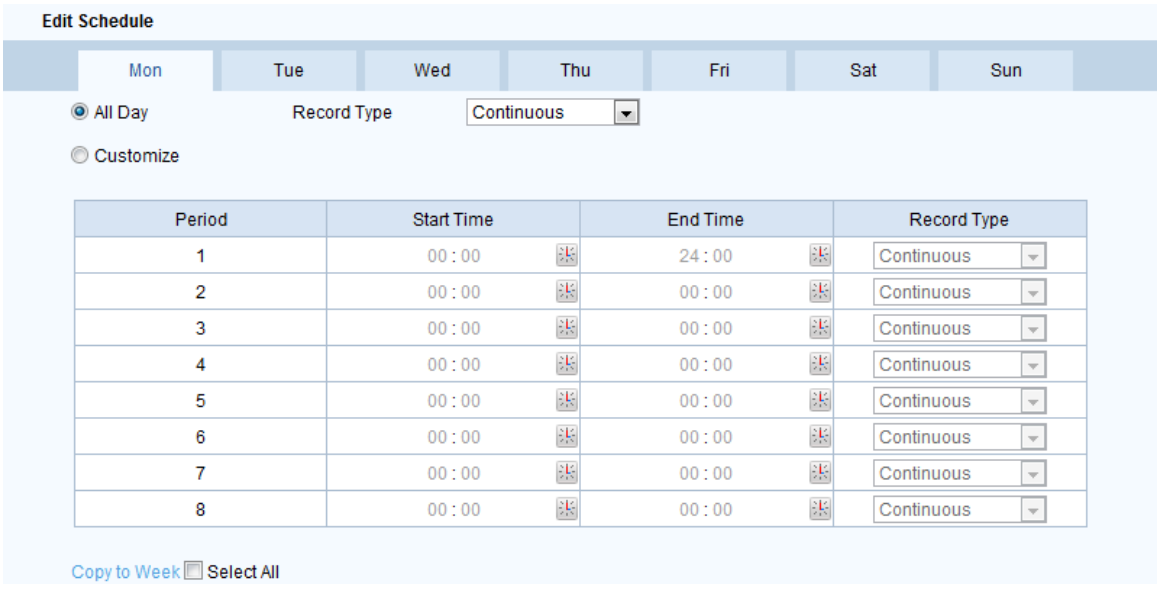
Two recording types can be configured: Manual and Scheduled. The following section introduces the configuration of scheduled recording.

Steps:

1. Click **Remote Configuration> Camera Settings> Record Schedule** to enter Record Schedule settings interface.
2. Select the camera to configure the record schedule.
3. Check the checkbox of **Enable Schedule** to enable recording schedule.



4. Choose the day in a week to configure scheduled recording.
5. Click **Edit** to edit record schedule**.**



1) Configure All Day or Customize Record:

- If you want to configure the all-day recording, please check the **All Day** checkbox.
- If you want to record in different time sections, check the **Customize** checkbox. Set the **Start Time** and **End Time.**

Note:

Up to 8 segments can be configured and each segment cannot be overlapped.

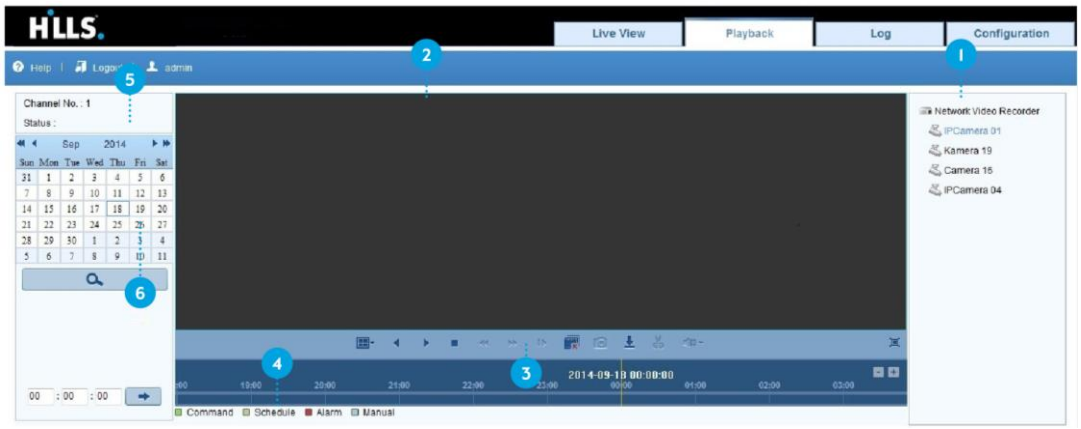
2) Select a **Record Type**. The record type can be Continuous, Motion, Alarm, Motion & Alarm, Motion | Alarm and VCA.

3) Check the checkbox of **Select All** and click **Copy** to copy settings of this day to the whole week. You can also check any of the checkboxes before the date and click **Copy**.

4) Click **OK** to save the settings and exit the **Edit Schedule** interface.

6. Click **Advanced** to configure advanced record parameters**.**
7. Click **Save** to activate the above settings.

Playback



Interface Introduction

No.	Name	Description
1	Channel List	Displays the list of channels and the playing status of each channel.
2	Playback Window	Displays the image of channel.
3	Play Control Bar	Play control operations are supported.
4	Time Line	Displays the time bar and the recording are marked with different colors.
5	Playback Status	Displays the playback status, including channel number and playback speed.
6	Calendar	Select the date to play.

Start Playback

Steps:

1. Click **Playback** on the menu bar to enter playback interface.
2. Click the camera from the device list for playback.
3. Select the date from the calendar and click **Search**.
4. Click the **Play** button to play the video file searched on the current date.
5. Use the buttons on the toolbar to operate in playback mode.

Button	Description	Button	Description
	Play/Pause		Stop
	Slow down		Speed up
	Play by single frame		Capture
	Stop all playback		Download
	Video clip		Open/Close audio
	Full screen		Reverse playback

6. You can drag the progress bar with the mouse to locate the exact playback point. You can also input the time in the textbox 00 : 00 : 00 and click button to locate the playback point.

   The color of the video on the progress bar stands for the different video types.

   Command Schedule Alarm Manual

Log

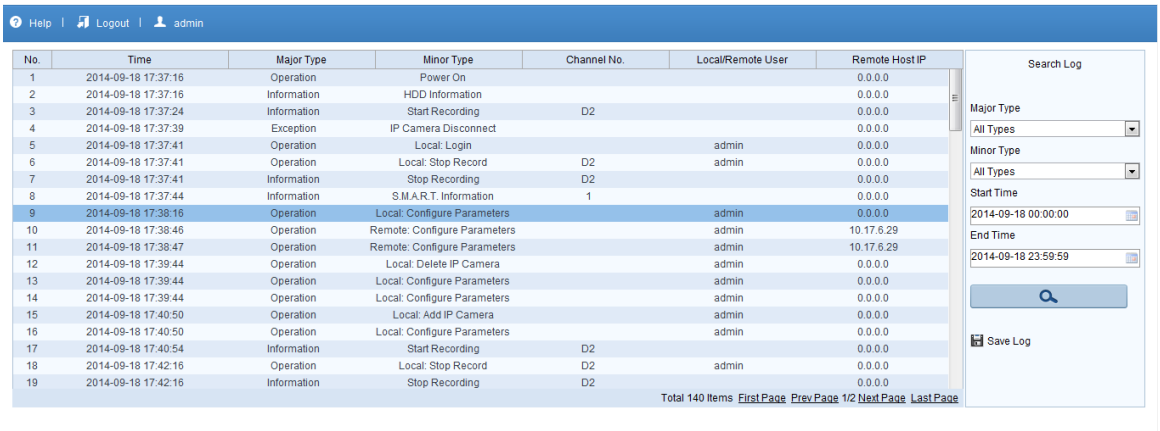
You can view and export the log files at any time, including operation, alarm, exception and information of device.

Before you start:

The Log function can be realized only when the device is connected with HDD or network disk.

Steps:

1. Click **Log** on the menu bar to enter the Log interface.


Help | Logout | admin
No. Time Major Type Minor Type Channel No. Local/Remote User Remote Host IP
1 2014-09-18 17:37:16 Operation Power On 0.0.0.0
2 2014-09-18 17:37:16 Information HDD Information 0.0.0.0
3 2014-09-18 17:37:24 Information Start Recording D2 0.0.0.0
4 2014-09-18 17:37:39 Exception IP Camera Disconnect 0.0.0.0
5 2014-09-18 17:37:41 Operation Local: Login admin 0.0.0.0
6 2014-09-18 17:37:41 Operation Local: Stop Record D2 admin 0.0.0.0
7 2014-09-18 17:37:41 Information Stop Recording D2 0.0.0.0
8 2014-09-18 17:37:44 Information S.M.A.R.T. Information 1 0.0.0.0
9 2014-09-18 17:38:16 Operation Local: Configure Parameters admin 0.0.0.0
10 2014-09-18 17:38:46 Operation Remote: Configure Parameters admin 10.17.6.29
11 2014-09-18 17:38:47 Operation Remote: Configure Parameters admin 10.17.6.29
12 2014-09-18 17:39:44 Operation Local: Delete IP Camera admin 0.0.0.0
13 2014-09-18 17:39:44 Operation Local: Configure Parameters admin 0.0.0.0
14 2014-09-18 17:39:44 Operation Local: Configure Parameters admin 0.0.0.0
15 2014-09-18 17:40:50 Operation Local: Add IP Camera admin 0.0.0.0
16 2014-09-18 17:40:50 Operation Local: Configure Parameters admin 0.0.0.0
17 2014-09-18 17:40:54 Information Start Recording D2 0.0.0.0
18 2014-09-18 17:42:16 Operation Local: Stop Record D2 admin 0.0.0.0
19 2014-09-18 17:42:16 Information Stop Recording D2 0.0.0.0
Total 140 Items First Page Prev Page 1/2 Next Page Last Page
Search Log
Major Type
All Types
Minor Type
All Types
Start Time
2014-09-18 00:00:00
End Time
2014-09-18 23:59:59
Save Log

2. Set the log search conditions to refine your search, including the Major Type, Minor Type, Start Time and End Time.
3. Click the **Search** button to start searching log files.
4. The matched log files will be displayed on the list.

   Note:

   Up to 2000 log files can be found each time, and 100 log files can be displayed on each page.

   You can click the Save Log button to save the searched log files to local directory.

Model		NVR-CH4	NVR-CH8	NVR-CH16
Part no		S47094	S47095	S47096
Video/Audio input	IP video input	4-ch	8-ch	16-ch
	Two-way audio input	1-ch, RCA (2.0 Vp-p, 1kΩ)		
Network	Incoming bandwidth	25Mbps	50Mbps	100Mbps
	Outgoing bandwidth	80Mbps		
	Remote connection	128		
Video/Audio output	Recording resolution	5MP/3MP/1080P/UXGA/720P/VGA/4CIF/DCIF/2CIF/CIF/QCIF		
	Frame rate	Main stream: 50 fps (P) / 60 fps (N)		
		Sub-stream: 50 fps (P) / 60 fps (N)		
	HDMI/VGA output	1-ch, resolution: 1920 × 1080P /60Hz, 1600 × 1200 /60Hz, 1280 × 1024 /60Hz, 1280 × 720 /60Hz, 1024 × 768 /60Hz		
	Audio output	1-ch, RCA (Linear, 1kΩ)		
Decoding	Live view / Playback resolution	5MP/3MP/1080p/UXGA/720p/VGA/4CIF/DCIF/2CIF/CIF/QCIF		
	Capability	4-ch@1080P	8-ch@720P, 6-ch@1080P	16-ch@4CIF, 12-ch@720P, 6-ch@1080P
Hard disk	SATA	1x 3TB HDD	1x 3TB HDD 1x SATA interface for 1x extra HDD	1x 3TB HDD 3x SATA interface for 3x extra HDDs
	eSATA (Optional)			1 eSATA interface
	Capacity	Up to 4TB for each disk		
External interface	Network interface	1 RJ-45 10 /100 /1000 Mbps self-adaptive Ethernet interface		2 RJ-45 10 /100 /1000 Mbps self-adaptive Ethernet interface
	Serial interface			RS-232 and RS-485
	USB interface	1 × USB 2.0 and 1 × USB 3.0		2 × USB 2.0 and 1 × USB 3.0
	Alarm in/out (Optional)	4 / 1		16/4 (optionally can be expanded to 16/8)

PoE	**Interface**	4 independent 100 PoE network interface	8 independent 100 PoE network interface	16 independent 100 PoE network interface
	Max. Power	50W	120W	200W
	Supported standard	AF and AT		
Others	**Power supply**	48V DC	220V AC	100-240V AC
	Consumption (without hard disk)	≤ 10W		≤ 20W
	Working temperature	-10 ºC ~ +55 ºC (+14 ºF~ + 131 ºF)		
	Working humidity	10 % ~ 90 %		
	Chassis	1U chassis	19-inch rack 1U chassis	19-inch rack 1.5U chassis
	Dimensions (W × D × H)	315 × 230 × 45mm (12.4 × 9.1 × 1.8 in)	445x290x45mm (17.5x11.4x1.8in)	445x390x70mm (17.5x15.3x2.8in)
	Weight (without hard disk)	≤ 1 Kg (2.2 lb)		≤ 4 Kg (8.82 lb)

HDD Storage Calculation Chart

The following chart shows an estimation of storage space used based on recording at one channel for an hour at a fixed bit rate.

Bit Rate	Storage Used
96K	42M
128K	56M
160K	70M
192K	84M
224K	98M
256K	112M
320K	140M
384K	168M
448K	196M
512K	225M
640K	281M
768K	337M
896K	393M
1024K	450M
1280K	562M
1536K	675M
1792K	787M
2048K	900M
4096K	1.8G
8192K	3.6G
16384K	7.2G

Note:

Supplied values for storage space used are just for reference. The storage values in the chart are estimated by formulas and may have some deviation from actual value.

For further information, including full user and installation manual, and technical support please visit:

www.hills.com.au/videosecurity